

Roland
WE DESIGN THE FUTURE

ROLAND KEYBOARDS

VOL.1



Electronic Musical Instruments

People expect more from

A lot of today's music would still be locked inside composers' heads if Roland wasn't around. Our innovative technology has given a new generation of musicians a range of tools with which they have been able to create new sounds that only a few years ago would have been impossible to achieve. At the same time, Roland technology has helped place sophisticated instruments, effect units, amps and other electronic marvels within reach of the average musician. This catalog covers our

Roland... and they get it.

keyboard products, the most extensive selection offered by any maker. Our range extends from simple electronic pianos for the home to microcomputer-based composers which can help imaginative performers synthesize complete symphonies in hours instead of months. In between, there are dozens of different products, each unique and each a reflection of the latest electronic technology. Roland. We design the future. And we've also helped create the past.

MC-4

MICROCOMPOSER

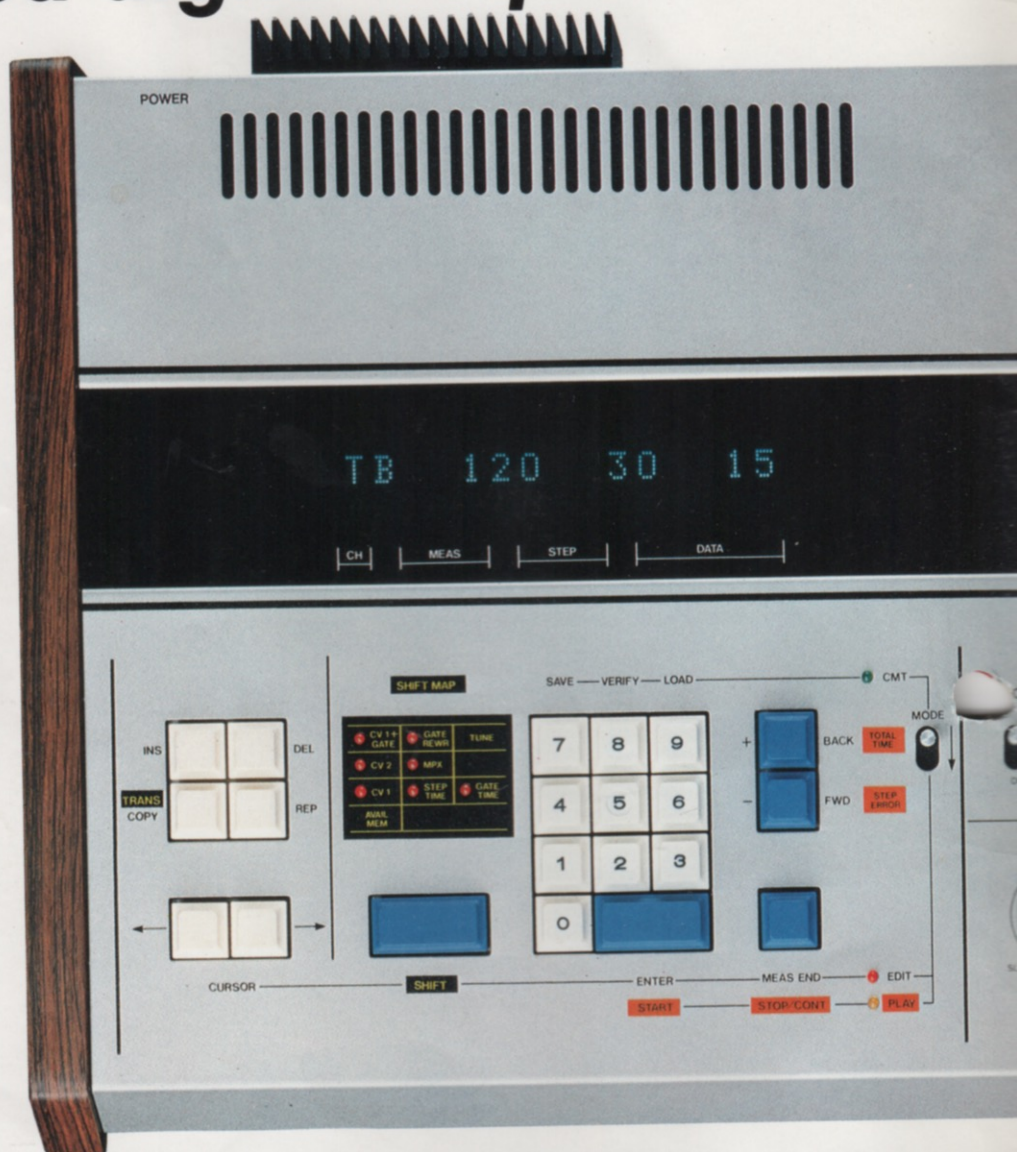
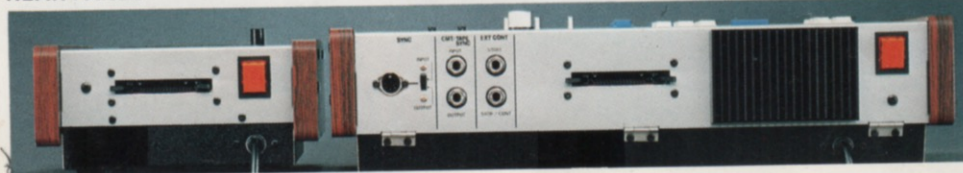
MicroComposer MC-4.

The advanced digital sequencer that

A new synthesizer controller to expand the range of any synthesizer and take the work out of complex composition.

- The MC-4 is a digital sequencer designed to accept numerical keyboard inputs, CV inputs from instrument keyboards and real time inputs.
- Real time input is possible in CV-1+GATE and GATE REWRITE in the same manner as with the CSQ-100 and CSQ-600. Real time can be performed while listening to sounds previously inputted on channels.
- The output has four channels to allow simultaneous control of four synthesizers.
- Each channel has two independent CV outputs. These CV outputs are available for control of pitch and level, or pitch and tone. Also when the note arrangement is the same, two-voice chords can be performed on one channel by controlling the two VCOs.
- Each channel is equipped with an MPX output (ON/OFF output of 0 - 12V) for ON/OFF control of portamento, vibrato, etc.
- A number of editing functions such as copy, insert, delete, forward step and back step are provided for easier data inputting and modification.
- Repeat commands can be inputted on each channel to specify repeating times. The repeat command can be used twice for easier inputting and memory economy.
- CV data and others (i.e. shifted step time, shifted gate time) can be transposed on each channel. Also data can be copied with transposition. These functions are very helpful to input arpeggio and base patterns.
- Step and gate time data can be preset. Once frequently-used step and gate time values are preset, data input can be completed by simply modifying other values.
- Tempo (♩ =) can be inputted by entering numbers. The inputted tempo is variable by the Tempo control in a range of -50% through +100% (maximum).
- Total playing time can be displayed. Tempo can be accurately set to any determined playing time by fine-adjusting the Tempo control while monitoring the playing time value.
- The internal memory of MC-4B is 48K byte. The MC-4A (16K byte) is expandable to 48K byte (maximum) with an optional OM-4 (32K byte RAM Board). The 16K byte memory can memorize up to 3,750 notes depending on step time, and the Measure number. This is expanded up to 11,500 notes at 48K byte.
- Remaining memory capacity can be indicated on the display as a percentage.
- Data can be stored on cassette tapes. When data is stored on a cassette tape, a data number is assigned, and the data number is inputted during loading, searched and read. (When data number is not inputted during loading, the cued data is inputted.)
- Input and output synchronization jacks (FSK) allow tape synchronization with a multi-track tape recorder. Also synchronization input and output (pulses) can be used for parallel playing of the MC-4.

REAR PANEL



- In addition to the input and output synchronization jacks, there are Sync IN/OUT DIN jacks. When a rhythm machine (equipped with a Roland standard DIN jack) is connected, playing can be performed synchronous with rhythm. Furthermore, these DIN jacks can be used for multiple use of several MC-4's.
- The Tempo CV input controls tempo by external voltage. Tempo can also be changed via CV data by connecting a CV input with any CV output. With this connection, total playing time can be calculated by the controlled tempo.
- The EXT START and EXT STOP/CONT PLAY jacks allow start/stop control of the MC-4 by a pedal switch or external voltage.

SPECIFICATIONS

• Memory Capacity: 3,750 notes (16 K byte version), 11,500 notes (48 K byte version) • Output: 4 channels, Each channel: CV-1 (0V - 10.42V, 0 - 125 steps, 83.3mV/step), CV-2 (0V - 10.42V, 0 - 125 steps, 83.3mV/step), Gate (off = 0V, on = 12V), MPX (off = 0V, on = 12V) • Ext Input: CV (0V - 10.42V), Gate (threshold +2.5V), Calibration Knob • Tempo CV Input: CV (0V - 10.42V) • Ext Sync: Input (threshold +2.5V), Output (0V - 5V) • Total Tune Knob: (±10 cents) • CMT/Sync: Input, Output (threshold +2.5V), Calibration Knob • Mode: Mode change switch (EDIT/PLAY/CMT) • Keys: Numeric (0-9), Enter (Start), Meas End (Stop/Cont), Back step (total time), (-), Forward step (step error), (+), Shift, Insert, Delete, Copy (shift copy = transpose), Repeat, Cursor <=, Cursor >= • Shift Map: 7: CV1 + GATE, 8: GATE REWRITE, 9: TUNE, 4: CV2, 5: MPX, 1: CV1, 2: STEP TIME, 3: GATE TIME, 0: Available Memory (%) • Edit mode: Time base (1 - 240), Tempo (1 - 240), Channel (1 - 4), Measure (1 - 61890), Step (1 - 61890), with Meas end, Keyboard entry, Data - Meas End [data entry with entry], Back [back step], Shift Meas End [only meas end entry], Back [back step], Fwd [forward step], Shift Numeric [1: CV-1, 2: step time, 3: gate time, 4: CV-2, 5: MPX], Copy [copy], Shift Copy [transpose], Ins [insert a set of data], Del [delete a set of data], Rep [repeat begin], Rep-Rep-times [repeat end with times] • Play mode: Enter [start], Meas End [stop & continue play], Back [total time], Fwd [step errors] • CMT mode: 7 - Numeric - Enter [load], 8 - Numeric - Enter [save], 9 - Numeric - Enter [verify] • Real time loading (in edit mode): Shift 7 - n - Meas End [CV-1 + Gate], Shift 8 - n - Meas End [gate rewrite], n: metronome in each measure • Others (in Edit mode & Play mode): Shift 9 [tuning synth's], Shift 0 [memory remainder %] • Dimension: 471(W) x 124(H) x 348(D)mm (18.6" x 13.7" x 4.9") • Weight: 6.3Kg (13.86 lbs.) • MC-4B accessory: MTR-100 connector cable

DIGITAL CASSETTE RECORDER MTR-100



Roland's new Digital Data Cassette terminal has the following added performance features for greater convenience and versatility.

- Memory Capacity: 250k Byte
- Dimensions: 218(W) x 118(H) x 348(D)mm (8.6" x 4.65" x 13.7")
- Weight: 3.4kg (7.48 lbs.)

does more.



- MC-4 is available in two types: A type and B type.

MC-4A 16k Byte
The MTR-100 digital cassette cannot be connected to the MC-4A directly.
Use of the optional OM-4 (RAM kit) allows connection of MTR-100 digital cassette to the MC-4A.

MC-4B 48k Byte (with OM-4 and built-in cassette interface)
The MTR-100 digital cassette can be connected to the MC-4B.

- Option

OM-4 32k Byte RAM kit



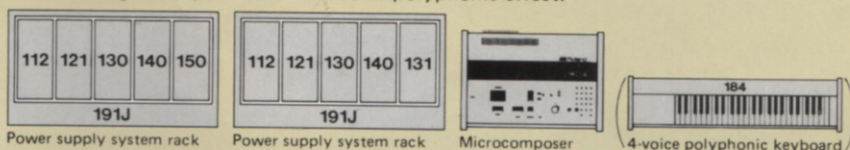
MC-4B+MTR-100

MC-4 and SYSTEM-100M combinations

- It is extremely convenient to use the MC-4 and Keyboard 181 or 184 together.
- We recommend use of PCS-10A and PCS-14A patch cords.

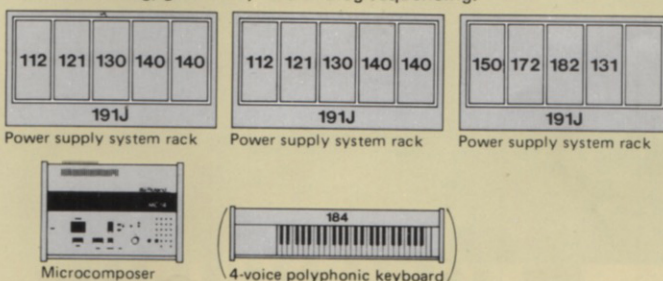
SYSTEM 1: Basic combination

- This arrangement provides a four-voice polyphonic effect.



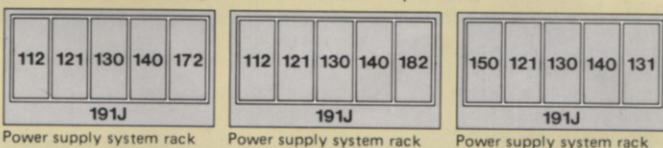
SYSTEM 2: With envelope generators for more delicate nuances

- This arrangement offers a number of additional features, such as audio delay, phase shifting, gate delay and analog sequencing.



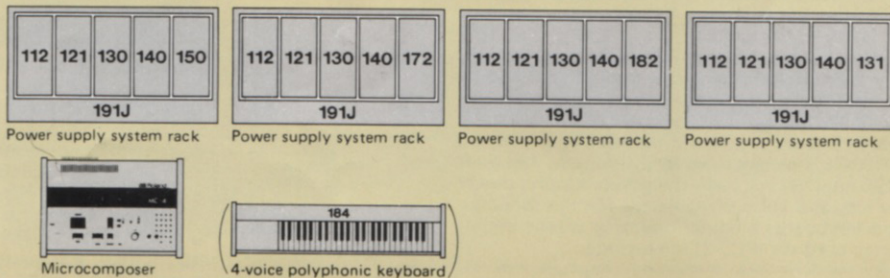
SYSTEM 3: Allows MC-4's MPX to be used for percussion effect (4-Voice section plus 2 percussion sounds)

- A 4-channel (or larger) audio mixer is required.



SYSTEM 4: Lets you synthesize a symphony

- The MC-4's CV-2 provides dynamic control, making this arrangement suitable for live performances.



SYSTEM-100M

SYSTEM SYNTHESIZERS

Create the electronic music system you need



This voltage controlled synthesizer is a musical instrument which contains elements that can be connected together, much like building blocks, to build or create almost any sound imaginable. As with most professional systems, the System 100M puts these synthesizer elements into separate modules so that you can build a system which meets your own particular needs.

All major control and audio inputs for each module have their own input mixers which greatly simplifies patches where multiple inputs are needed. This also means that all patch cord signal levels are high for a much better signal-to-noise ratio. All module inputs and outputs are compatible so that any output may be connected with any other and with most equipment found in the recording studio. Keyboard control voltage, gate and trigger are internally connected so that normally patch cords are not needed for these. All modules are the same size and weight: 104 (W) x 230 (H) x 200 (D) mm, 1.6 kg.

A Flexible System for Today's Creative Musician

The System 100M is sold as separate units so that you can build up a system to match your own particular needs. The keyboards include 6-conductor cords for power, internal CV, GATE, and TRIGGER connections to the system. The racks (190 and 191) contain the power supply, power switch, and voltage regulators for the modules and keyboard. Module mounting screws and a patch cord set (PCS-2) are included.

SYSTEM RACKS

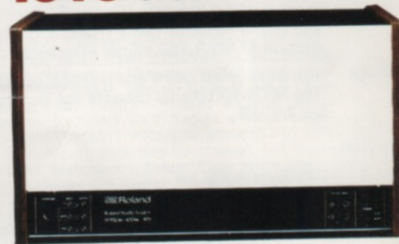
190 3 MODULE SYSTEM RACK



Rear panel: 8-pin DIN connectors to supply power to modules; 6-pin DIN plug for expanding the system so that one keyboard may be used to control any number of additional rack systems. Available for 100V, 117V, 220V, 240V, @50/60Hz. Simulated wood ends.

- Dimensions: 349 (W) x 314 (H) x 192 (D) mm
- Weight: 5.6 kg (without modules): 190B Base for 190 is also available.

191J 5 MODULE SYSTEM RACK



This handsome sturdy rack is capable of holding five modules and is equipped with 33 jacks for easy, fast patching. Except for its added width and weight, this rack is exactly the same as the Model 190.

- Dimensions: 558 (W) x 314 (H) x 192 (D) mm
- Weight: 6.9 kg (without modules).

with Roland's compact modular System 100M.

KEYBOARD CONTROLLERS

184

4 CV COMPUPHONIC KEYBOARD CONTROLLER

Polyphonic keyboard with independent 4 CV and 4 GATE control.

By adding the 184 to the SYSTEM 100M or SYSTEM 700 system synthesizer, polyphonic music with an extremely rich timber can be easily reproduced. The 184 is a 4-voice keyboard controller with 4 CV's, 4 GATEs, and 49 keys (C-scale). It also has an auto arpeggio function and selectable assign mode (monophonic/polyphonic). Parallel connection is easy with standard jacks and mini-jacks on the rear panel. A convenient bender lever is provided for easy control of polyphonic portamento.

- Keyboard: 49 keys (C-scale)
- Dimensions: 938(W) x 108(H) x 263(D)mm (36.9" x 4.3" x 10.4")
- Weight: 8.5kg (18.7 lbs.)



181

49-KEY KEYBOARD CONTROLLER

An expanded version of the 180. Added features are a portamento on/off switch and a bender lever. Also included are a mini-jack and a standard phone jack output so that the bender may be used for controlling other functions.

- Dimensions: 846(W) x 100(H) x 236(D)mm
- Weight: 6.5kg.



180

32-KEY KEYBOARD CONTROLLER

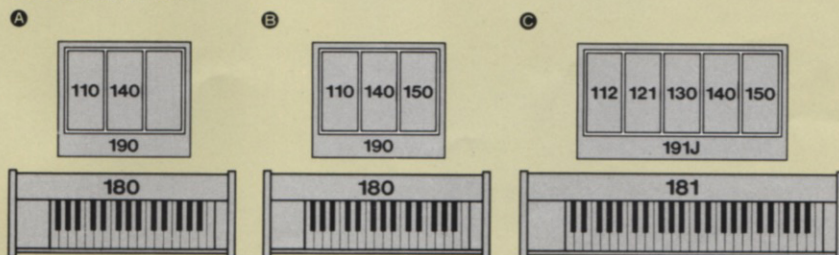
A 1V/oct. low key priority keyboard with three sets of outputs for easing the compatibility with other synthesizer systems: Mini-jacks, standard phone jacks and a 6-pin DIN plug. Outputs include control voltage, gate, and trigger. The control panel on the left contains a TUNING control, a three position TRANSPOSE switch, and a PORTAMENTO control. The ends are simulated wood to match System 100M racks.

- Dimensions: 589(W) x 100(H) x 236(D)mm
- Weight: 4.7kg

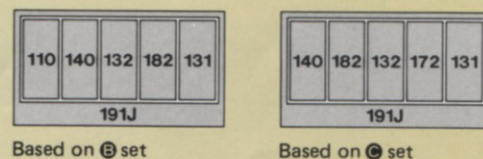


Typical module combinations

Basic combinations



Expanded combinations



SYNTHESIZER MODULES



110 VCO-VCF-VCA

BASIC SYNTHESIZER MODULE

This module contains the three main synthesizer elements, and when combined with a Model 140 module, provides all that is needed for the production of one synthesizer voice. This arrangement is particularly convenient in a computer controlled system where the generation of each voice in a composition can be assigned primarily to one module. The connections for signal flow from the VCO, through the VCF to the VCA are made internally to save patching time. Another internal connection allows a single envelope generator input to control both the VCF and VCA. All internal connections are made with switching jacks so that they can be broken, if desired.

- VCO • Output: 10Vp-p, 1k Ω • Input: 50k Ω
- Frequency: 1Hz-30kHz • Control Sens: 1V/oct.
- VCF • Cutoff Frequency: 25Hz-20kHz • Slope: -24dB/oct. • Control Sens: 1V/oct. • VCA
- Nominal gain: 1, Linear • Frequency Response: 3Hz-50kHz S/N: 70dB • High Output: 15Vp-p Max, 1k Ω • Low Output: 1.5Vp-p Max, 3.3k Ω



112 2VCO

DUAL VCO MODULE

This module consists of two independent VCO's in one package with expanded features. Both include three separate variable control inputs, strong and weak sync mode for phase locking, and simultaneous manual and external control of pulse width.

- VCO • Output: 10Vp-p, 1k Ω • Input: 50k Ω
- Frequency: 1Hz-30kHz • Control Sens: 1V/oct.



121 2VCF

DUAL VCF MODULE

Two independent voltage controlled low pass filters in one package. Each VCF includes the added feature of a built-in fixed high pass filter with a switch for turning the high pass function off or selecting one of three cutoff points.

Each VCF also includes three audio and three control inputs, and LED's for following signal flow. The green LED's light when a signal appears at the outputs, the red LED's light, for overdrive (distort) condition.

- VCF • Cutoff Frequency: 25Hz-20kHz • Slope: -24dB/oct. • Freq. Response: 10Hz-20kHz • Control Sens: 1V/oct. • Fixed High Pass Filter Cutoff Points: off, 1kHz, 2kHz 5kHz



130 2VCA

DUAL VCA MODULE

Two independent VCA's in one package, each with a selector switch for linear or exponential control response: also three audio three control inputs.

- VCA • Nominal Gain: 1 • Frequency Response: 3Hz-50kHz; S/N: 70dB • High Output: 15Vp-p Max, 1k Ω • Low Output: 1.5Vp-p Max, 3.3k Ω • Linear Response: 10%/1V • Exponential Response: 10dB/1V



131 OUTPUT MIXER

A four channel stereo mixer with panning on each channel. This mixer can be used in four track recording or to coordinate multiple synthesizer outputs. Includes stereo headphone output with completely independent level control. Convenient tuning oscillator with separate level control: 220Hz, 440Hz, 880 Hz. Mixer program outputs include left and right stereo outputs and separate mono output. Program outputs include both miniature Jacks and 1/4" phone jacks for convenient connection to other parts of the synthesizer or to other studio equipment. Each program output also includes a red LED to show overload or distort condition.

- Jacks: 4 Signal Input (15Vp-p, Impedance: Greater than 50k Ω) Output (Stereo, Monaural, 0.775V rms. Impedance less than 1k Ω) • Frequency Response: 3Hz x 4kHz • S/N: Better than 75dB • Crosstalk: Better than 75dB



132 DUAL CV/AUDIO MIXER & VOLTAGE PROCESSOR

Each mixer is a four channel mixer with simultaneous inverted and non-inverted outputs. They can be used for summing control voltages and/or for mixing audio signals. Both include built-in positive and negative voltage sources. A red LED shows overload condition.

The module also includes a separate variable positive voltage source and a separate variable negative voltage source.

- Jacks 4 Signal Input (Max. ± 10 Vp-p, Impedance Better than 50k Ω) 2 Output (Max. ± 10 Vp-p, Impedance 1k Ω) • Frequency Response: DC-40kHz • S/N: Better than 90dB • Voltage Sources: 2 Level Volume: (0-+10V, 0-10V) • 2 Output ja (Impedance 1k Ω)



140 2ENV-LFO

LFO + DUAL ENVELOPE GENERATOR MODULE

This module and the Model 110 module provide the minimum basic elements necessary to produce a single synthesizer voice. Or, used with Models 112, 121, and 130, provides enough elements for two voices.

ADSR'S: Can be triggered from internal gate or gate + trigger, from an external gate, or manually with the front panel pushbutton. Both envelope generators provide inverted and normal outputs.

LFO: Voltage controlled low frequency oscillator with built-in delay for delayed vibrato effects. **KYBD TRIG** switch allows phase locking of LFO output to keyboard trigger pulse.

- ENV GEN • Attack: 1.5ms-7.5s • Decay: 4ms-15s
- Sustain: 0-±10V • Release: 4ms-15s • Out: 1kΩ
- Gate/Trig Input: 50kΩ, 3V Min. • LFO • Frequency: 0.05Hz-30Hz • Control Sens: 1V/oct.
- Output 10Vp-p, 1kΩ • Delay Time: 0-7s



150 RING-NOISE S/H LFO

RING MODULATOR/NOISE GENERATOR/SAMPLE & HOLD/LFO

Ring Modulator: The most common function of the ring modulator is to combine two VCO outputs to produce metallic clanging sounds. **Sample & Hold:** The sample and hold can be used for sampling an input waveform for producing control voltage patterns based on that waveform. The musical result is patterns of notes such as arpeggios, random notes, etc.

Noise Generator: White and pink noise for sound effects and non-pitched musical instrument sounds.

- Ring • Frequency: 20Hz-20kHz • Output: 1kΩ
- Input: 50kΩ, X + Y = 20Vp-p • Input Rejection: 60dB
- S/H • Clock: 0.2Hz-25Hz • S/H Out: 0-10Vp-p Max, 1kΩ
- Signal Input: 10Vp-p Max, 50kΩ
- Noise • White/Pink: 12Vp-p, 1kΩ • LFO • Frequency: 0.05Hz-30Hz • Control Sens: 1V/oct.
- Output: 10Vp-p, 1kΩ • Delay Time 0-7s



172 PHASE SHIFTER/AUDIO DELAY/GATE DELAY

The phase shifter and audio delay can be used for producing spatial effects. Both include convenient effect ON/OFF switches. Both can be controlled from an external control voltage source so that two units may be used together for stereo effects, or may be used as a part of the sound synthesis process itself. The built-in control LFO has both normal and inverted outputs. The gate delay can be used where it is desirable to provide a delayed output from a pulse source, or it can be used as a pulse shaper. The gate delay also has a built-in high gain amplifier with a **THRESHOLD** control so that low level pulses recorded on tape can be amplified and shaped into a form which will trigger synthesizer functions.



182 ANALOG SEQUENCER

A two channel, eight step analog sequencer for producing control voltage changes in sequence to produce such things as melodic patterns, patterned tone color changes, etc. In series mode, voltage sequences of up to 16 steps may be programmed. In parallel mode, two independent voltages can be preset for each of up to eight steps, or one of the channel outputs can be used to control the sequencer clock so that the timing between each step in the sequence can be different. Several sequencers may be used in series for longer sequences, or in parallel for more channels of simultaneous output.

- Tempo Control: 7sec-3ms (0.14Hz-33Hz) • Portamento: 0-10sec Channel 1 only
- Gate Time: 10%-90% • CV Out: 0-3V/0-10V • Gate Out: +14V, Impedance less than 2kΩ
- Tempo CV Input: 0-10V, Impedance 120kΩ • Trig. In: +5-15V more than 1ms, Impedance 50kΩ
- End Pulse Out: +14V 10ms, Impedance less than 3.3kΩ



JUPITER-8

8 VOICE POLYPHONIC SYNTHESIZER

Presenting the ultimate in a performance

Introduction:

The Roland Jupiter-8 has the sound sophistication of a modular synthesizer in the most practical, performance-oriented polyphonic synthesizer ever conceived. The JP-8 is an 8 voice, 16 oscillator poly synth with 64 user-programmable memories and an advanced 5 octave keyboard which may be split into two poly synths with different patches, used in Dual mode for layering two patches for each key, or played as a whole with up to 8 fully independent notes from the same patch.

Designed for Performance:

The key to the JP-8's unsurpassed performance ability is an advanced computer-assigned keyboard which allows more flexibility and control than ever before.

The five octave keyboard has 61 keys, C to C, that can be grouped into three different Key Modes: Whole, Dual and Split. In Whole Mode it operates as a single keyboard with up to 8 totally independent notes from the same patch. Select Dual Mode to lay two voices with their own patches from any four keys for thick "section" sounds or sounds never before possible.

Split Mode divides the Keyboard into two polyphonic synths, (three octaves at the upper end, two at the lower end) each with its own programmed sound and set of 4 independent voices. The Jupiter-8 programmer even allows the programming of 8 different Patch Preset pairs so that a split keyboard with predetermined programs for each end may be called up at the touch of a button. This unique Split feature with its Patch Preset programs lets the JP-8 fulfill the function of many pairs of separate yet fully flexible instruments from one keyboard, a distinct advantage in flexibility, portability and economy.

The Jupiter-8 keyboard computer also provides a unique Arpeggio section, allowing the sequencing of automatic arpeggios live off the notes played, shifting harmony as the keys change in a way no present sequencer ever will. The JP-8 will arpeggiate over the bottom of a split keyboard which leaves the top end free for polyphonic chord, solo or effect work. Arpeggios will play octaves off one note, or follow the notes in the order they are played when more notes are held. The Arpeggio changes as notes are changed over one of four ranges, with any patch and at any speed. Arpeggios can move either Up, Down, Up and Down, or at random among the notes held for a Sample and Hold effect that does not destroy the harmony. The speed of the Arpeggio is internally controlled by a Rate slider, and can also be controlled by an external clock signal from a device such as Roland Compu-Rhythms, CR-8000, TR-808 and TR-806.

Extensive Programmer Section:

Another key to the almost limitless flexibility of the Jupiter-8 is its large programmer section. Every synthesizer function including volume is user-programmable into any one of 64 memories or 8 pairs of Patch Presets, more complete programming and more programs than any other instrument. Programs are easily selected by punching in the actual program number on switches numbered 1 to 8, and are displayed on large, bright LED numbers that show the programs selected for both ends of the keyboard at a glance.

Writing a program from the manual synthesizer controls simply requires pressing three buttons, and each program is retained through a battery backup system until rewritten.

The Jupiter-8 incorporates an edit facility for every synthesizer function that is so simple to operate it can even be used for alterations while actually playing on the job. Just move any control, and that function will change at that point. There are no special buttons to push like on other instruments, no great uncontrolled changes in sound. The JP-8 then offers the choice



of retaining the original program or the edited version depending on which is desired permanently.

Synthesizer Control Functions:

The heart of the Jupiter-8 and the source of its impressive sound is its 8 synthesizer systems. . . true, full function synthesizers with many improvements, simplifications and innovations that other synthesizers don't offer.

The JP-8's simple layout flows logically left to right in a single bank of controls so that visual information is available from knobs and grouped sliders at a glance. The synthesizers contain the following:

An LFO containing sine, square, sawtooth and random S&H waveshapes, a rate control with LED rate indicators for the programs at both ends if a split keyboard is used, and adjustable delay, with additional controls available in the Bender section. Two VCO's provide triangle, sawtooth square, sine, pulse and noise wave-forms. The broadest range of VCO controls are available, including Cross Modulation, synchronizing LFO and/or ADSR Modulation, and Pulse Width Manually, LFO or ADSR controlled for the ultimate in pitch and tone color control.

Performance Controls:

The JP-8 features a wide variety of performance-oriented controls for the musician. The Bender section is both flexible and precise, designed to adjust itself to individual musical needs. A center sprung Bender always returns to where it began, with separate controls allowing the amount of

oscillator and/or filter sweep at the Bender extremes to be present for exactly the effect desired, every time.

A separate touch pad near the Bender brings in LFO modulation to the oscillator and/or filter easily with any finger of your left hand, completely independent of any Bender function. Nearby controls set the depth of VCO and VCF modulation and LFO delay. The Bender section is completed with adjustable polyphonic Portamento assignable to the entire keyboard or the upper section of the keyboard split. Performance controls include the Edit function as mentioned and External Control input jacks for optional control of the Arpeggio clock, foot volume pedal control of the VCF sweep and VCA level to all outputs, Portamento footswitching and Hold footswitching. Front panel controls finish with a balance control for the Split Mode and a Master Volume control.

The rear panel includes Tape Memory Input and Output jacks and the Memory Protect switch, Highest Note Output CV (1 volt/octave) and Gate (0 to 15 volt) for use with sequencers and/or external synthesizers. Outputs include Balanced Outputs for the Upper and Lower ends of the keyboard at 0dB, and Upper, Lower and Mixed Unbalanced Outputs switchable between either 0dB or -20dB suit any amplification. An amplifier is provided for headphone monitoring, completely separate from the Master Volume control on the front panel.

oriented polyphonic synthesizers.



SPECIFICATIONS

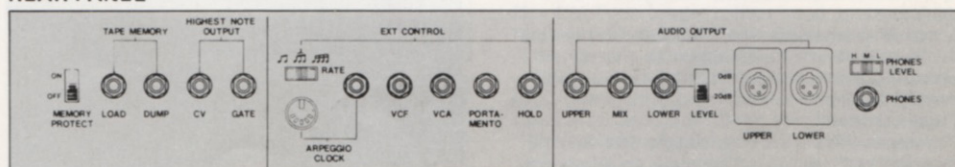
- Keyboard: 61 keys, 5 octaves, C scale
- VCO Modulation: LFO Mod, ENV Mod, Mod Switch (VCO-1/BOTH/VCO-2), Pulsewidth Mod, PWM Mode Switch (LFO/Manual/ENV-1)
- VCO-1: Cross Mod, Range (16', 8', 4', 2'), Waveform (S, A, P, R, N, Noise)
- VCO-2: Sync Switch (OFF/ON), Freq Range Switch (Normal/Low Freq), Range (16' - 2' Chromatic), Fine Tune (± 50 cent), Waveform (S, A, P, R, N, Noise)
- Mixer: Source Mix (VCO-1 - Mix - VCO-2)
- HPF: Cutoff Freq
- VCF: Cutoff Freq, Resonance, Slope Switch (-12dB/-24dB), ENV Mod, ENV Selector (ENV-1/ENV-2), LFO Mod, Key Follow (0 - 120%)
- VCA: Level, LFO Mod (0, 1, 2, 3)
- ENV-1: Attack Time (1.5msec - 6sec), Decay Time (1.5msec - 12sec), Sustain Level, Release Time (1.5msec - 12sec), Key Follow (ON/OFF), Polarity (S, A, P, R, N)
- ENV-2: Attack Time (1.5msec - 6sec), Decay Time (1.5msec - 12sec), Sustain Level, Release Time (1.5msec - 12sec), Key Follow (ON/OFF)
- LFO: Rate (0.05Hz - 40Hz), Delay Time (0 - 4sec), Waveform (S, A, P, R, N, Random), Rate Indicator
- Arpeggio: Rate (1Hz - 25Hz), Switch (IN/EXT)
- Volume
- Balance
- Tune: (± 50 cent)
- Patch Memory: Patch Number Button (64 Memory), Manual Button, Patch Preset Button (8 Preset), Write Button, Memory Protect, Indicator
- Tape Memory: Dump Button, Verify Button, Load Button, Data Check Indicator
- Patch Number: Display
- Arpeggio:

- Range (1, 2, 3, 4), Mode (Up, Down, U&D, Random)
- Assign Mode: Solo, Unison, Poly-1, Poly-2
- Hold: Lower Hold (ON/OFF), Upper Hold (ON/OFF)
- Key Mode: Dual, Split, Whole
- Panel Mode: Lower, Upper
- Portamento: Portamento Time, Portamento Mode (Upper Only/OFF/ON)
- LFO Modulation: ON/OFF Button, Rise Time
- Bender: Bender Lever, VCO Bend Sensitivity, VCO-1 Bend Switch (ON/OFF), VCO-2 Bend Switch (ON/OFF), VCF Bend Sensitivity, VCF Bend Switch (ON/OFF), VCO Mode Sensitivity, VCO Mod Switch (ON/OFF), VCF Mod Sensitivity, VCF Mod Switch (ON/OFF)
- Rear Panel Audio Out: Cannon Upper (0dBm), Cannon Lower (0dBm), Jack Upper,

- Jack Mix, Jack Lower, Level Selector (0dB/-20dB), Phones Jack (Stereo), Phones Level, Selector (L/M/H)
- Ext Control: Hold, Portamento, VCF, VCA
- Arpeggio Clock: Input, Din Plug, Beat Selector (S, A, P, R, N)
- Highest Note Output: CV Out (0V - 5V), Gate Out (0V - 15V)
- Tape Memory: In, Out
- Memory Protect Switch (ON/OFF)
- Dimensions: 1063 (W) x 120 (H) x 485 (D)mm (41.9" x 4.72" x 19.1")
- Weight: 21.5kg. (47.3 lbs.)

- Options: KS-20 stand (KSA-20: Adaptor to allow use of KS-20 with Jupiter 8), FV-20 foot volume, DP-2 pedal switch, TB-8 aluminum case

REAR PANEL



JUPITER-4

COMPU-PHONIC SYNTHESIZER

Four voice polyphonic synthesizer with computer memory stores up to eight different selected sounds.



Roland's exciting new JP-4 has four independent synthesizer modules and a computer memory which allows you to patch, store, and recall up to eight different sounds at a finger's touch. You also have 10 preset sounds, including bass, strings, piano, sax, and trumpet, for a total of 18 sounds. Other features include 2-channel stereo effect and external control.

The JP-4 is a thoroughly professional unit, with all the advanced performance features which have made Roland a fixture on today's music scene.

Computer memory and complete control
For live performances, nothing is more important than fast, accurate patching. With the JP-4's programmable memory, you patch before you start playing... up to eight different sounds. Then, just push a button to recall any selection while playing. It's that fast and that simple. An automatically-recharged battery provides power to retain the memory contents when power is turned off.

Memory controls include a WRITE button for programming the sounds, MANUAL switch to bypass the memory and a special PROTECTION lock button to prevent accidental erasures.

Arpeggio selector/Key assign mode button

The ARPEGGIO selector allows automatic arpeggios of up to four octaves above the reference key (pressed key). The pattern follows the sequence of the pressed keys and has four modes: UP, DOWN, UP & DOWN, and RANDOM. The KEY ASSIGN MODE switch controls the four control function patterns of the synthesizer modules.

Programmable section with wide range of functions

The programmable section is the heart of the JP-4 and is equipped with four VCO's, four VCF's, four VCA's, and LFO, and noise generator.

VCA
A master volume control is provided for setting the output level of each patch so that when switching between sounds, the sound level remains the same.

Trigger section

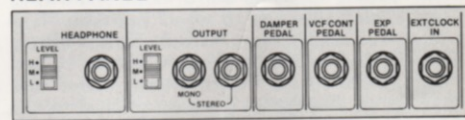
This section includes an arpeggio rate varying function with an IN/EXT switch to allow synchronization of the arpeggios with an external pulse. The VCF section has a sample and hold function using noise as a source, allowing random modulation of the cutoff frequency.

SPECIFICATIONS

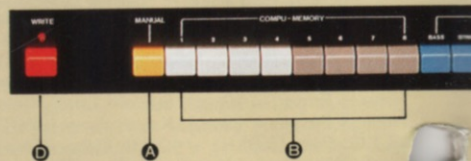
- Keyboard: 49 keys, 4 octaves, C scale
- Synthesizer Modules • VCO: VCO Range (16', 8', 4')
- Waveforms () • Pulsewidth (50%, 40%, 20%, 10%) and Pulsewidth LFO Depth
- PWM Mode Switch (Manual/LFO) • LFO Modulation • Sub Oscillator (1 oct. down)
- Noise Generator: ON/OFF Switch • VCF: HPF Cutoff (40Hz - 5kHz) • LPF Cutoff (20Hz - 20kHz) • LPF Resonance (0 ~ Self Oscillation) • KYBD Follow (0%, 40%, 70%, 100%) • LFO Modulation • ENV Modulation • ENV Polarity () • VCA: VCA Out Level 1/Overload Indicator • LFO: Waveforms () 1/LFO Rate (0, 1Hz - 80kHz or more) 1/LFO Rate Indicator • Envelope Generator for VCF and VCA 2: Attack Time (0.6msec - 3sec) Decay Time (14msec - 10sec) Sustain Level (0 - 100%) Release Time (14msec - 10sec) • Modifier: Trigger Generator • Trigger: Trigger Rate (1Hz - 25Hz) • Arpeggio Select Switch (IN, EXT) • VCF MOD Select Switch (IN, EXT) • VCF Modulation • Delay/Bend: Bend LFO Rate • Bend LFO Rate Width (NORM, WIDE) • Delay Time (0 - 10sec) • Mode Select • Preset Select Switch (Bass, String, Funky Clavi, Piano, Voice, Trombone, Sax, Trumpet, Synth, The Force) • Compu Memory: Select Switch 8/Manual Switch • Protection Switch • Memory Write Switch • Write Indicator 2 (Back up battery built in) • Arpeggio & Key Assign: Arpeggio Selector (UP, DOWN,

- UP & DOWN, RANDOM) • Key Assign Mode Selector (UNISON I, UNISON II, POLY I, POLY II) • Control • Controller: Portamento (0 - 1 sec/1 oct.) • Portamento Switch (ON-OFF) • Transpose (NORMAL-1 oct. DOWN) • LFO Modulation • Bend Sensitivity • (VCO: $\pm$ oct or more) (VCF: $\pm$ 2 oct or more resonance pitch) (VCA: $\pm$ 12dB or better)/LFO/OFF/BEND Switch 3/Manual Level • Tuning ($\pm$ 50 cent $\pm$ 1%) • Ensemble (ON-OFF) • Hold (ON-OFF) • Connections: Output Jack (Mono, Stereo) • Output Level Switch (H position at 4 sound outputs: 0dBm standard) • Headphone Jack (Stereo type) • Headphone Level Switch • External Control Input Jack (Damper DP-2) (VCF FV-2) (EXP FV-2: 0 ~ -30dB) (External Clock: OFF... 0V, ON... 1V pulse minimum) • Dimensions: 946(W) x 179(H) x 410(D)mm (37.3" x 7.1" x 16.2") • Weight: 19kg (41.8 lbs.) • Accessories: 2.5m Connection Cord x 2 • Options: KS-20 stand, MR-5 music rest, FV-200 foot volume, DP-2 pedal switch, TB-4 aluminum case

REAR PANEL



COMPUTER MEMORY SETTING



1. Push Manual button (A).
2. Use the Programmable Section to create the desired sound.
3. Push a Compu-Memory button (1 - 8) to store the sound in the memory.
4. While keeping Protection button (C) pressed, press the Write button.

PROMARS

COMPUPHONIC SYNTHESIZER

It's like having several keyboards in one.



Programmable preset synthesizer with two VCO's and a microprocessor for almost unbelievable versatility.

In addition to ten frequently used presets, including bass and strings, the PROMARS can store up to eight different sounds you create yourself for recall at the touch of a button. And, of course, it can be controlled manually like any conventional synthesizer. The PROMARS is also equipped with sub-oscillators which give its two VCO's the functional range of four. VCO II can be switched on and off and also switched instantly between any two musical intervals; or it can be used to produce a chorus effect by slightly detuning from unison.

A multi-mode bender offers fast, easy control and can be controlled from an external input. External outputs allow the PROMARS to control other synthesizers. In short, it has all the functions and features you need for live performing.

Computer memory and complete control

For live performances, nothing is more important than fast, accurate patching. With the PROMARS programmable memory, you patch before you start playing... up to eight different sounds. Then, just push a button to recall any selection while playing. It's that fast and that simple. An automatically-recharged battery provides power to retain the memory data when power is turned off. Memory controls include a WRITE button for programming the sounds, MANUAL switch to bypass the memory and a special PROTECTION lock button to prevent accidental erasures.

Programmable section with wide range of functions

The programmable section is the heart of the PROMARS and is equipped with a dual VCO, VCF, VCA, LFO, and noise generator.

VCA

A master volume control is provided for setting the output level of each patch so that when switching between sounds, the sound level remains the same.

Presets for fast sound selection

A total of 19 different sounds are always available. These include 10 presets (bass, strings, funky clav, piano, voice, trombone, sax, trumpet, synthesizer I, and synthesizer II), eight sounds you program yourself, and one manually programmed sound.

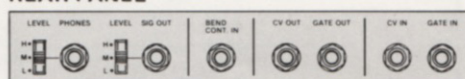
Multi-mode bender for added creative effects

Roland's famous multi-mode bender/modulator allows free variation of pitch, tone, and loudness for everything from guitar choking to manual wow. This unit also has a bend sensitivity feature to allow control of bend over an even wider range, LFO modulation control for setting modulation depth, and a jack so the bend/modulator function can be controlled from an external control voltage source.

Protected memory

A back-up battery system retains memory data for six months even when power is disconnected. If memory data must be retained for longer periods, simply turn on the power switch for a few hours. Loading memory data requires simultaneous pushing of two widely separated buttons so that memories cannot be cleared with accidental button pushing.

REAR PANEL



SPECIFICATIONS

- Keyboard: 37 keys, 3 octaves, F-F
- VCO (x2): VCO Range (16', 8', 4'), Waveform (/ , \ , □ , ▭), Pulse Width (50%, 40%, 20%, 10%) and LFO Pulse Width Depth, PWM Mode Switch (Manual/LFO), LFO Modulation, Sub-Oscillator (1 octave down)
- Noise Generator: ON/OFF Switch
- VCF: HPF Cutoff (40Hz-5kHz), LPF Cutoff (20Hz-20kHz), LPF Resonance (0-self oscillation), Keyboard Follow (0%, 40%, 70%, 100%), LFO Modulation, Envelope Modulation, Envelope Normal/Invert Switch (/ , \)
- VCA: VCA Output Level, Overload Indicator
- LFO: Waveform (/ , \ , □ , ▭), LFO Rate (0.1Hz - more than 80Hz), LFO Rate Indicator
- Envelope Generator (each for VCF, VCA): Attack Time (0.6ms-3sec), Decay Time (14ms-10sec), Sustain Level (0-100%), Release Time (14ms-10sec)
- Delay/Bend Section: LFO Bend Rate, LFO Bend Normal/Wide Switch, Delay Time (0-10sec)
- Preset Sound Selector (x 10): Bass, Strings, Funky clav, Piano, Voice, Trombone, Sax, Trumpet, Synth I, Synth II
- Compu-memory: Selector x 8, Manual Switch, Memory Protection Switch, Memory Write Switch, (Contains back-up battery for memory protection when Power switch is off)
- Controller Section: Portamento (0-3sec), Portamento ON/OFF Switch, Transpose Switch (Normal/1 Octave Down), Bend Sensitivity: VCO: greater than ± 1 octave, VCF: greater than ± 2 octaves (resonance pitch), VCA: greater than +6dB, -12dB, LFO/OFF/Bend Switch x 3, Manual Bend Lever, LFO Modulation Control
- Tuning: Master Tuning (greater than ± 1 semitone), VCO-2 "A" Tuning (greater than ± 1 octave), VCO-2 "B" Tuning (greater than ± 1 octave), "A"/OFF/"B" Tuning Selector Switch
- Other Controls: Brilliance (VCF cutoff frequency), Hold Button (ON/OFF), Key CV Tune (under rubber cover on bottom of PROMARS)
- Inputs and Outputs: SIG Out Jack, Output Level Selector (H: 0dBm, M: -6dBm, L: -12dBm), Headphone Jack (stereo; 8 Ω), Headphone Level Selector (H, M, L), Bend Control In Jack; with Bend Sensitivity Control at "10": VCO: approx 2V/oct. VCF: approx 1V/oct. VCA: approx 1V/2.2dB, CV Out Jack (1V/oct.), Gate Out Jack (+10V), CV In Jack (1V/oct.), Gate In Jack (greater than +10V)
- Dimensions: 765(W) x 162(H) x 402(D)mm (30.1" x 6.4" x 15.8")
- Weight: 14kg (30.8 lbs.)
- Accessory: 2.5m Connection Cord
- Options: KS-1 stand, MR-5 music rest, FV-200 foot volume, CB-8 leatherette case



b. The Write button indicator will light to show that sound has been properly stored in memory.

• To recall a memorized sound, press the corresponding Compu-Memory button.

SH-2 SYNTHESIZER

The stage synthesizer with studio features.



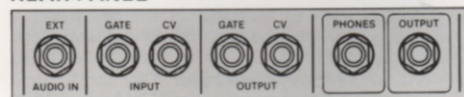
VCO-1 adds a sub-oscillator to its sine wave output for far greater range from the dual VCO configuration. A bender lever independently controls VCO-2 for free variation of pitch between the VCO elements. There's also a delayed vibrato for a more natural sound and auto-bend for making strings, pipes and voices sound more realistic. And to make it compatible with digital sequencers and other electronic components, the 1V/octave voltage-to-pitch ratio has been adopted as the standard.

SPECIFICATIONS

- Keyboard: 37 keys, 3 octaves
- VCO: Auto Bend, Modulation Depth, Pulsewidth (50%-MIN), PWM Mode Switch (ENV/Manual/LFO), Total Tune, VCO-1; Range (32', 16', 8', 4', 2'), Waveform (Noise, Δ , $\square$, ∇), Bender ON/OFF Switch, VCO-2; Range (32', 16', 8', 4', 2'), Waveform (Noise, Δ , $\square$, ∇), VCO-2 Tune; Tune Range (Wide/Narrow)
- Audio Mixer: VCO-1 Sub, VCO-1, VCO-2
- VCF: Cutoff Frequency (10Hz-20kHz), Resonance (0-self Oscillation), Envelope Select Switch (ENV FOL'R, ENV Δ , ENV ∇), Envelope Depth, Modulation Depth
- VCA: Control Signal Select Switch (HOLD, ENV Δ , KYBD GATE ∇)
- Envelope Generator: Attack Time (1msec-2.5 sec), Decay Time (2msec-10sec), Sustain Level (0-100%), Release Time (2msec-10sec), Gate Trigger Select Switch (GATE + TRIG/GATE/LFO)
- Modulator: Mode (Random/ Δ / $\square$ / ∇), Rate (0.2Hz-25Hz), Delay Time (0-1.5sec), Rate Indication LED
- Volume
- Portamento: (0-5sec)
- Bender: Sensitivity (VCO, VCF)
- Connections: Output Jack 10dBm Standard, Headphone Jack (for 8 Ω stereo), CV Input Jack (1V/oct.), Gate Input Jack (ON = over +7.5V), CV Output Jack (1V/oct.), Gate Output Jack (OFF = 0V, ON = +14V), External Signal Input Jack (Max 0.5Vp-p)
- Dimensions: 670(W) x 100(H) x 305(D)mm (26.4" x 3.9" x 12.0")
- Weight: 6.9kg (15.2 lbs.)
- Accessory: 2.5m Connection Cord

- Options: KS-1 stand, CB-09 leatherette case, SC-2 soft case, SC-09 soft case

REAR PANEL



CONNECTIONS

•Synthesizer duets

By using two synthesizers with a CSQ-100 or CSQ-600, you can simultaneously play the same rhythm in two voices. Load the melody (pitch) into the CSQ-100 or CSQ-600 using one of the synthesizers. Then, connect

the other synthesizer as shown and play the melody on it. The rhythm of the previously loaded pitches will automatically follow the rhythm played on the second synthesizer.



SH-09

SYNTHESIZER

**Roland SH-09, the compact synthesizer
with a sub oscillator for more on-stage excitement.**



Roland's compact SH-09 is a scaled down version of our famous SH-2, with many of the advanced features which have made the SH Series so popular with top performing artists. With its improved VCO and VCF, the SH-09 provides exceptionally stable pitch and tone color. A modulator, combined with the sample/hold function, allows pinpoint generation of random sounds. The addition of the sub oscillator expands the range even further. Sliding controls, pitch bend lever and complete array of jacks add even more versatility, while the envelope follower can be used to synchronize the SH-09 with electric guitars or other keyboards. And, with its standardized 1V/1 octave voltage-to-pitch ratio, the SH-09 is fully compatible with other electronic music equipment, including Roland's revolutionary CSQ-100 digital sequencer. Weighing a mere 6kg and only 605mm long, the SH-09 travels well. And like all Roland products, it's designed to make the most out of your creative potential.

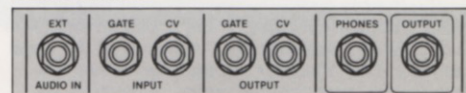
SPECIFICATIONS

- Keyboard: 32 keys, 2-1/2 octaves
- VCO: Modulation Depth, Tune (± 65 cent), Range (32', 16', 8', 4', 2'), Waveform (Noise, $\square$, $\square$, $\square$), Pulse Width (50%-Min), PWM Mode Switch (ENV-1/Manual/LFO)
- SUB OSC (sub oscillator): 1 oct down $\square$ /2 oct down $\square$ /2 oct down $\square$
- Audio Mixer: VCO, SUB OSC, EXT SIG
- VCF: Cutoff Frequency (10Hz-20kHz), Resonance (0-self oscillation), Envelope Selector Switch (ENV FOL'R, ENV $\sim$, ENV $\sim$), Envelope Depth, Modulation Depth
- VCA: Control Signal Selector Switch (HOLD, ENV $\sim$, KYBD GATE $\square$)
- Envelope generator: Attack Time (1ms-2.5s), Decay Time (2ms-25s), Sustain Level (0-100%), Release Time (2ms-25s), Gate Trigger Selector Switch (GATE + TRIG/GATE/LFO)
- Modulator: Mode (Random/ $\square$ / $\sim$), Rate (0.2Hz-25Hz), Delay Time (0-1.5 sec), Rate Display LED
- Volume Control
- Portamento (0-5sec)
- Bender Lever: Sensitivity (VCO, VCF)
- Connection Terminals:

- Output Jack (standard phone jack; -10dBm), Headphones Jack (8 Ω stereo), CV Input Jack (1V/oct.), Gate Input Jack (ON at more than +7.5V), CV Output Jack (1V/oct.), Gate Output Jack (OFF = 0V, ON = +14V), External Signal Input Jack (standard phone Jack; -20dBm)
- Dimensions: 605(W) x 100(H) x 305(D)mm (23.8" x 3.9" x 12.0")
- Weight: 6.1kg (13.4 lbs.)
- Accessory: 2.5m Connection Cord

- Options: KS-1 stand, CB-09 leatherette case, SC-2 soft case, SC-09 soft case

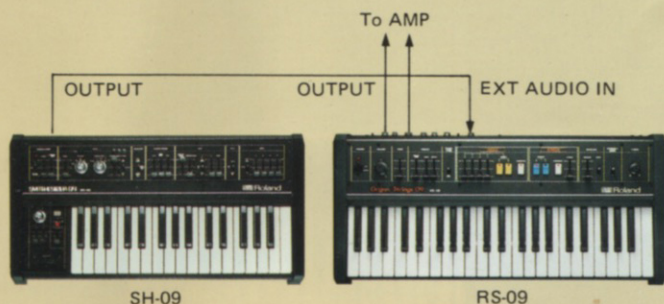
REAR PANEL



CONNECTIONS

SH-09 (bass) + RS-09 (chord)

The synthesizer can be used to add a bass line to chords played on a string synthesizer to create a mellow, ensemble effect.



VP-330

VOCODER PLUS

Vocoder Plus...

It expands your musical dimensions three ways.



The Roland Vocoder Plus is a totally new concept in polyphonic keyboards, which employs Vocoder circuitry to achieve a new degree of keyboard instrument versatility. The Vocoder Plus contains three tone-generating sections: Vocoder, Human Voice, and Strings, which may be independently assigned to cover the whole keyboard, or either the upper or lower half. Each half of the Vocoder Plus may be run in stereo. The String section produces orchestral string sounds that are silky and warm feeling, and most importantly, consistent throughout the entire length of the keyboard. The Tone and Attack Time of the String section can be controlled independently, and the Release Time is shared with the two other sections. The Human Voice section literally defies description with its uncanny resemblance to a chorus of human voices. The upper half of the keyboard contains one female and one male chorus, while the lower half contains two male choruses. There is also an ensemble effect which increases the dimension of the vocal chorus. The Vocoder section, processes the spoken or sung human voice, analyzing its character and using this information to modify musical signal.

When used independently or together, the three sections of the Vocoder Plus give an incredible new dimension to any keyboard set-up. In a live performance, the Vocoder Plus can be used to strengthen a band's vocal capabilities by literally adding a chorus of voices singing the same vocal part. The addition of the String section's instrumental voicings make the Vocoder even more integral to a performance. The Vocoder section's capabilities as a lead instrument are also many and varied.

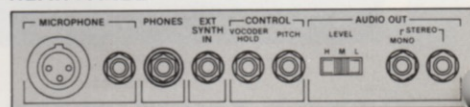
The flexibility of the Vocoder Plus makes it a natural in a recording studio. Due to its ability to accept many types of program inputs, (including other musical instruments), the Vocoder Plus can be used in a wide variety of studio situations. For example, a harmony part can be added to a vocal track by feeding the voice track through the Vocoder section and merely playing the keyboard in harmony to it. The advantage of this over a conventional harmonizer is obvious in that the musical interval can be easily varied by the keys as this is not possible on a harmonizer. The Vocoder Plus contains a Balance control between all sections as well as Vibrato controls that allow selection of rate delay, and depth.

SPECIFICATIONS

- Keyboard: 49 keys, 4 octaves, C scale
- ST-RINGS SECTION, Tone Tablets: Upper Strings 4', Lower Strings 4'; Control Knob: Attack Time, Tone
- Release Control: Strings, Human Voice, Vocoder
- HUMAN VOICE SECTION, Tone Tablets: Female 4', Male 8' Upper, Male 4', Male 8' Lower; Control Tablets: Ensemble ON/OFF; Control Knob: Attack Time
- VOCODER SECTION, Tone Tablets: Upper 8', Lower 8'; Control Tablets: Ensemble ON/OFF; Control Knob: Tone, Microphone Gain (dB)
- VIBRATO for HUMAN VOICE and VOCODER, Control Knob: Depth, Rate, Delay Time
- BALANCE, Volume Control: Strings, Human Voice, Direct Mic.
- Ext. Synth. Volume
- Phones Volume
- Master Volume
- Pitch Shift Control: Pitch Slider, Pitch Set, Time, Pitch Mode Switch (Auto-Off/Ext-Manual)
- CONNECTION JACKS, Input Jacks: Mic. Std, Mic. Cannon, Ext. Synth; Output Jacks: Stereo or Mono Level Select; Vocoder Hold Control, Pitch Shift Control, Phones Output Jack
- Dimensions: 905(W) x 145(H) x 370(D)mm (35.6" x 5.7" x 14.6")
- Weight: 14kg (30.8 lbs.)
- Accessories: 2.5m Connection Cord x 2/Pedal Switch (DP-2) Music Rest

- Options: KS-10 stand, DR-200A microphone, ST-100 mic stand, TB-5 aluminum case, CB-5 leatherette case

REAR PANEL



JUNO-6

POLYPHONIC SYNTHESIZER

NEW POLYPHONIC SYNTHESIZER



MP-600

COMBO PIANO

Ideal for live performances.



The MP-600 is a 64 key electronic piano with a weight-balance key action and a more natural piano sound. Three different basic sounds are available: soft piano, bright piano, and clavichord. The 6-band graphic equalizer allows a ± 12 dB variation of six frequency ranges from 100Hz to 5kHz. Decay time is variable. By using different settings, a wide variety of sounds can be created. Equipped with a headphone jack for rehearsing and private practice. All controls use sliders for fast, positive settings.

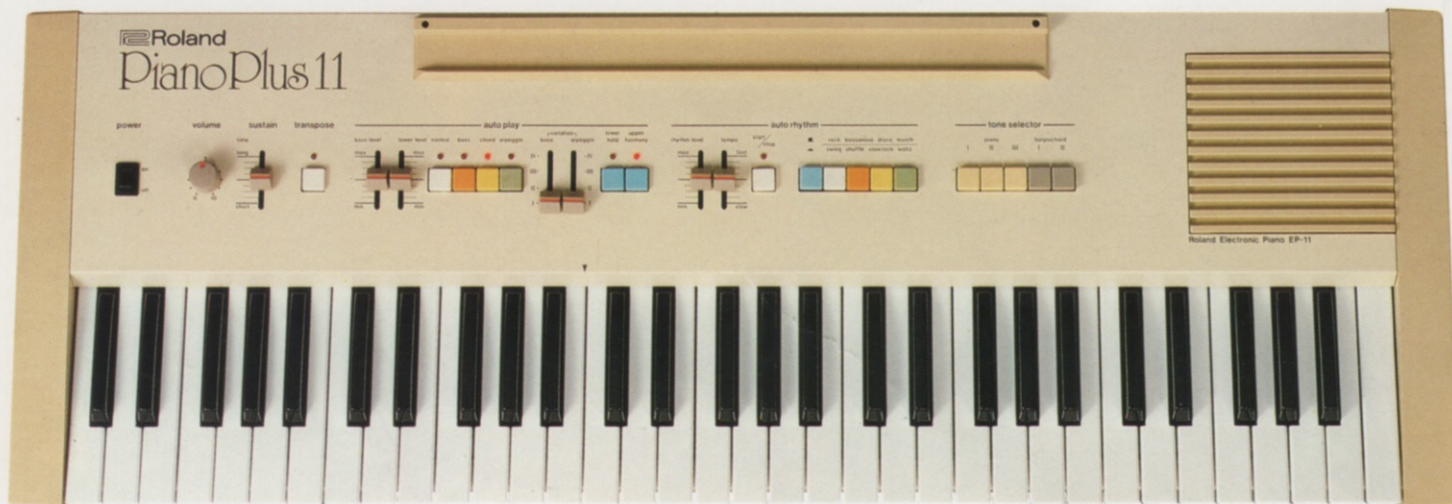
- Dimensions: 1,125(W) x 132(H) x 470(D)mm (44.3" x 5.2" x 18.5")
- Weight: 23kg (50.6 lbs.)
- Options: KS-20 stand, MR-1 music rest, DP-5 damper pedal, CB-6 leatherette case

REAR PANEL



PIANO PLUS 11 <EP-11> ELECTRONIC PIANO

The piano with its own brain that lets you concentrate on your playing



- The EP-11 has Auto Bass, Auto Chords and Auto Arpeggio functions for piano. Also equipped with Auto Rhythm the first time as an electronic capable of selecting 8 different rhythm patterns.
- Four bass and arpeggio pattern variations are available for each rhythm to give you a tremendous playing range.
- The Lower Hold function lets the accompanying part continue even after the left hand is removed, and the Upper Harmony function automatically harmonizes chords played with the left hand with the melody played with the right hand.
- Key Transpose function that allows the player to designate the transposed key on the keyboard by key name. Transposition to any key is instant. Music of different keys can be played in C major.
- There are five tone colors; Piano I, II, III, and Harpsichord I and II. All are freely variable from percussive to long sustain with the sustain time control.
- A built-in 2W output speaker eliminates the need for an external amplifier. Headphones can also be used.
- The sustain effect can be set so the sound fades out once the keys are released.
- Tuning is never needed since this is a true electronic piano.

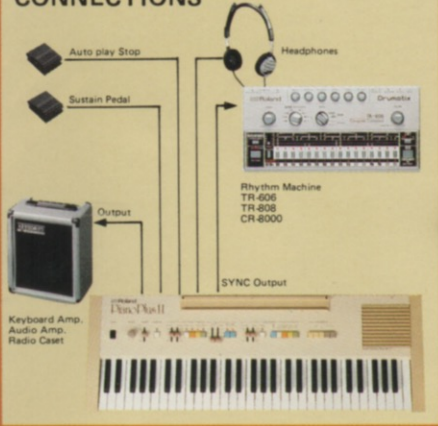
SPECIFICATIONS

- Keyboard: 61 keys (C2 ~ C7)
- Tone Selector: Piano I/II/III, Harpsichord I/II
- Auto Rhythm: Rhythm Selector (Rock, Bossanova, Disco, March, Swing, Shuffle, Slowrock, Waltz), Start/Stop Button, Tempo, Tempo Indicator, Rhythm Level
- Auto Play: Mode Selector (Normal, Bass, Chord, Arpeggio), Mode Indicator x 4, Bass Level, Lower Level, Bass Variation (I/II/III/IV), Arpeggio Variation (I/II/III/IV), Lower Hold (on/off), Lower Hold Indicator, Upper Harmony (on/off), Upper Harmony Indicator
- Special Functions: Transpose Button, Transpose Indicator
- Effect: Sustain Time
- Tuning: ± 50 cents
- Speaker: 10cm (2W)
- Rear Panel: Output Jack, Phones Jack (8 Ω stereo), Sustain Pedal Jack, Auto Play Stop, Sync Output (clock & start/stop)
- Others: Power Switch, Total Volume
- Dimensions: 912(W) x 115(H) x 325(D)mm (35.9" x 4.5" x 12.8")
- Weight: 9kg (19.8 lbs.)
- Accessories: Music Rest, Pedal Switch (DP-2), Cover
- Options: KS-2 stand, RH-10 stereo headphones, SC-60 soft case

REAR PANEL



CONNECTIONS



EP-09 ELECTRONIC PIANO

Introducing the first electronic piano with arpeggio effects.



Not only a fine electronic piano, but the built-in microcomputer gives you arpeggio effects to add to your musical playing enjoyment. The arpeggio function can be used independently or in combination with normal sequence playing. It also has a variable rate, octave range and three separate mode settings, and the arpeggio effect continues even after the keys are released to make multi-keyboard playing easier.

Like Roland's other fine electronic pianos, the EP-09 gives you four different tones: PIANO I, PIANO II, and HARPSICHORD I and II. For home practice there's a built in amplifier and speaker.

SPECIFICATIONS

- Keyboard: 61 key (5 octave)
- Dimensions: 880(W) x 115(H) x 285(D)mm (34.6" x 4.5" x 11.2")
- Weight: 7.1kg (15.62 lbs.)



PIANO PLUS 70 <HP-70> / 60 <HP-60>

ELECTRONIC PIANO

Finally, an electronic piano for the home that's portable enough to take anywhere.



Unlike most pianos in their class, the Piano Plus 70 and Piano Plus 60 are extremely light and compact for easy carrying. They're also easier to use. The variable key touch control lets you adjust key play so that it seems you're playing an acoustic piano. At the same time, both models can produce full selection of electronic piano sounds. High-performance speakers on both sides of the simulated wood body make the 70 and 60 perfect for home use. And, when connected to an external amplifier, they're perfectly suitable for concert halls. Piano Plus 70 and 60. The compact electronic pianos with the big sound.

- Piano Plus 70 is the 75 key compact piano and Piano Plus 60 is small enough to use on a table. Their rich, simulated wood finish blends with any interior.
- Twin speakers produce clear, crisp piano sounds. Volume control and headphone jack are standard. For a bigger sound, simply connect to an auxiliary amplifier.
- A touch sensor lets you stress sounds using the key-touch control and with the touch control, play is comparable to an acoustic piano's.
- Four tone colors can be selected by the push buttons: Piano I and Harpsichord I for classics and Piano II and Harpsichord II for pop and jazz.
- Piano Plus 70 comes with a built-in chorus effect to deepen and extend sounds. Just press a button to turn it on.
- The sustained sound gradually fades after the key is released. Sustain time is fully adjustable and an accessory pedal switch (DP-2) can be used as damper pedal.
- The input jack allows easy connection with rhythm machines and synthesizers.
- Since everything is electronic, tuning is never required.

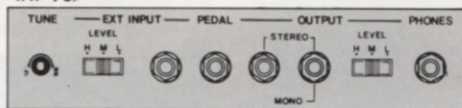
SPECIFICATIONS

• Keyboard: 75 keys (F1 ~ G7) [HP-70] / 61 keys (C2 ~ C7) [HP-60] • Tone Selector: Piano I/II, Harpsichord I/II • Special Functions: Touch Control • Effect: Chorus, Sustain Time [HP-70] / Sustain Time [HP-60] • Tuning: ± 30 cents • Speaker: 10cm x 2 (2W x 2) • Rear Panel: Output Jack (HP-70 stereo/mono, HP-60 mono), External Input Jack, Phones Jack (8 Ω stereo), Sustain Pedal Jack • Others: Power Switch, Total Volume • Dimensions: 1105(W) x 130(H) x 300(D)mm (43.5" x 5.12" x 11.8") [HP-70] / 915(W) x 130(H) x 300(D)mm (36.0" x 5.12" x 11.8") [HP-60] • Weights: 12kg (26.4 lbs.) [HP-70] / 10.1kg (22.22 lbs.) [HP-60] • Accessories: Music Rest, Pedal Switch (DP-2), Cover

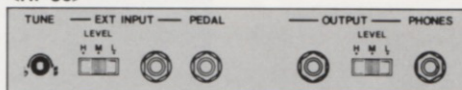
- Options: KS-2 stand, DP-6 damper pedal, SC-70 soft case, SC-60 soft case

REAR PANEL

<HP-70>



<HP-60>



RS-09

ORGAN/STRINGS

Roland RS-09 Organ Strings. It's in a class by itself.



No other electronic instrument made by any other maker anywhere in the world offers the combination of versatility and sound of Roland's dramatically new RS-09. This advanced keyboard instrument is both an electronic organ and an electronic strings, with a broader range of control over both sounds than most individual units. With its 44 key keyboard, separate string and organ sections, envelope control, vibrato and ensemble, it provides musicians a scope that before could only be duplicated with two or more instruments. And despite its wealth of functions, the RS-09 is available at a surprisingly low cost.

A full set of sliding controls allows fast, easy mixing of 8', 4', 2' and 1' notes. Attack time is continuously variable for strings and both strings are organ sounds work with sustain and ensemble effects.

The two channel output allows contouring the sound field with an external PA or audio system for a wide-spreading stereo effect. An EXT

AUDIO IN terminal permits direct connection of a guitar or microphone to the ensemble modulator section to add even more versatility. The RS-09 can also be connected directly to an external synthesizer and effect units.

Light and compact, the RS-09 is fully portable and is available with an optional stand, foot pedal and other fine Roland accessories.

SPECIFICATIONS

- Keyboard: 44 key, 3-1/2 octave
- Strings section: Strings Tablet (8', 4'), Ensemble ON/OFF Switch, Attack Time
- Organ Section: Mixing Volume (8', 4', 2', 1') Organ ON/OFF Tablet, Tone Switch, Ensemble ON/OFF Switch
- Envelope Control: Release Time, Release Mode Switch
- Vibrato Control: Delay Time, Rate, Depth
- Ensemble Mode Switch
- Tone Control
- Volume
- Transpose Switch
- Tuning (± 35 cent)
- Power Switch
- Power Indication LED
- Connection Terminal: Output x 2 (stereo), Output Level Switch (L = -30dBm/M =

- $-15\text{dBm/H} = 0\text{dBm}$), Headphone (for 8Ω stereo), Organ RAW Signal Output (Max. 0.5Vp-p), Gate Output (OFF = 0V , ON = $+14\text{V}$), Sustain Pedal Connection, External Signal Input, External Signal Level Switch (L = 0dBm/M = $-20\text{dBm/H} = -40\text{dBm}$)
- Dimensions: 676(W) x 102(H) x 306(D)mm (26.6" x 4.0" x 12.1")
- Weight: 7.3kg (16.1 lbs.)
- Accessory: 2.5m Connection Cord x 2

- Options: KS-1 stand, FV-200 foot volume, DP-2 pedal switch, CB-09 leatherette case, SC-2 soft case, SC-09 soft case

REAR PANEL



RS-505 PARAPHONIC STRINGS

The new instrument that gives you the range of a symphony orchestra.

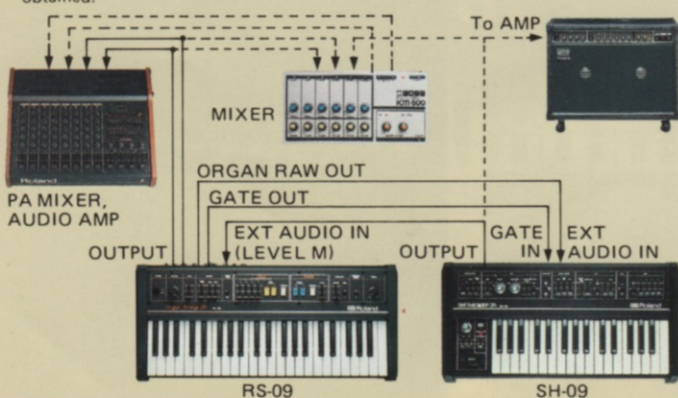


- Keyboard: 49 keys, 4 octaves, C scale
- Dimensions: 905(W) x 145(H) x 370(D)mm (35.6" x 5.7" x 14.6")
- Weight: 14kg (30.8 lbs.)

CONNECTIONS

RS-09 + SH-09

By processing the basic organ waveforms produced by the RS-09 through the VCF of the SH-09 (or SH-2), an effect similar to that of a polyphonic synthesizer can be obtained.



SA-09

SATURN

SA-09 Saturn. Another great new musical hybrid from the masters at Roland.



This new hybrid keyboard can be used as either an organ (envelope ) or a piano (envelope ) or to create your own original sounds. Equipped with a footage mixer, four tone selectors, and a chorus modulator, this polyphonic instrument is another first-of-its-kind from Roland.

With the footage mixer, it's easy to combine sound sources and modify tones with the sliding controls. The tone color can be further modified by the pushbutton-controlled selectors.

For an even more dramatic sound, the organ and percussive envelopes are interlocked with the sustain slider. And for more movement, the chorus modulator has a stereo output. The SA-09 can also be connected to the SH-09 or other compatible Roland synthesizers.

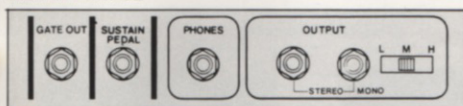


SPECIFICATIONS

- Keyboard: 44 keys, 3-1/2 octaves
- Sound Source: Footage Mixer; 8', 4', 2', 1', Tone Filter; I, II, III, IV
- Envelope: Organ/Percussive
- Accent: ON/OFF
- Sustain: ON/OFF, Time
- Modulator: Mode; OFF, I, II, Chorus/Vibrato
- Tone Control
- Volume
- Transpose: 1 oct. Down
- Tuning: ± 50 cents
- Connection Jacks: Output x 2 (stereo), Output Level Switch (L/M/H), Phones Jack (8 Ω , stereo), Sustain Pedal, Gate Output (0V $\rightarrow$ 15V)
- Dimensions: 676(W) x 102(H) x 306(D)mm (26.6" x 4.0" x 12.0")
- Weight: 6kg (13.2 lbs.)
- Accessory: 2.5m Connection Cord

- Options: KS-1 stand, FV-20 foot volume, DP-2 pedal switch, CB-09 leatherette case, SC-2 soft case, SC-09 soft case

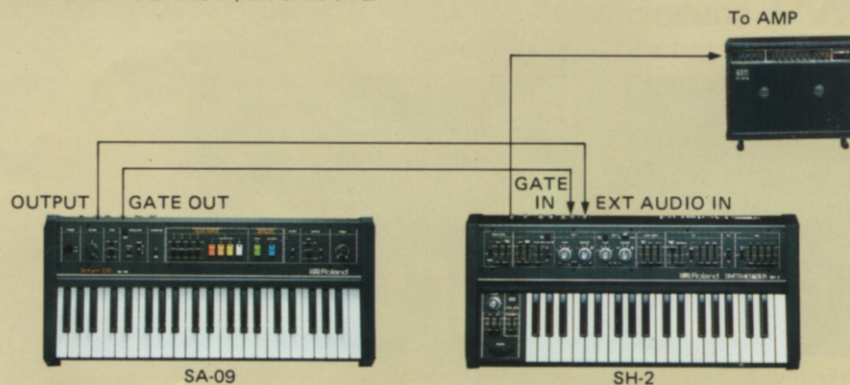
REAR PANEL



CONNECTIONS

SA-09 + SH-02

Combining an SA-09 with a SH-2 synthesizer produces an effect similar to that of a polyphonic synthesizer. The SH-09 can also be used in place of the SH-2.



VK-09

ELECTRONIC ORGAN

A sound as surprising as its price.

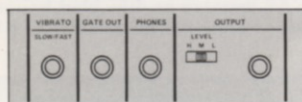


Roland's new VK-09 is an economically-priced, compact combo organ with 61 keys and drawbar control. With its "bright wave" and "sine wave" sound sources and six drawbars, it is capable of a wide range of effects. Standard features include Vibrato/Chorus for slow choral and fast rotary speaker sound, percussion effect, volume soft and decay fast.

SPECIFICATIONS

- Keyboard: 61 keys (C scale)
- Sound Sources: Sine Wave, Bright Wave, Sine and Bright Wave
- Percussion: 2nd and 3rd Harmonics, Soft Volume, Decay Fast
- Vibrato Chorus: Slow, Fast, ON/OFF Switch
- Sustain Control: Sustain ON/OFF Switch, Sustain Time
- Drawbar Control: 16', 5-1/3', 8', 4', 2-2/3', 2' with each sound sources
- Foot Switch: for change percussion Slow/Fast
- Dimensions: 892(W) x 106(H) x 347(D)mm (35.1" x 4.2" x 13.7")
- Weight: 9kg (19.8 lbs.)
- Accessory: Music Rest
- Options: KS-10 stand, FV-2 foot volume, CB-1 leatherette case

REAR PANEL



VK-1 COMBO ORGAN

A combo organ that sounds like a console.

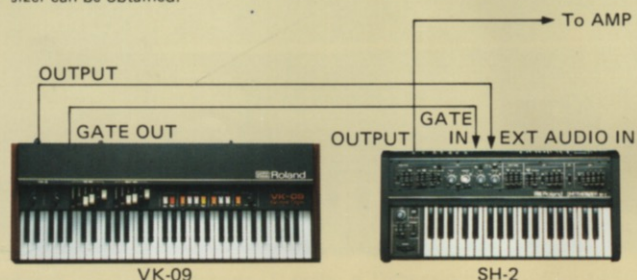


- Keyboard: 61 keys (C scale)
- Dimensions: 1,130(W) x 148(H) x 448(D)mm (44.5" x 5.8" x 17.6")
- Weight: 16kg (35.2 lbs.)

CONNECTIONS

VK-09 + SH-2

By combining the VK-09 with a SH-2 (or SH-09) synthesizer, an effect similar to that of a polyphonic synthesizer can be obtained.



Systematized equipment and accessories

DIGITAL SEQUENCERS

CSQ-600 DIGITAL SEQUENCER

Simultaneous memorization of steps and rhythm for automatic synthesizer passages during live performances.

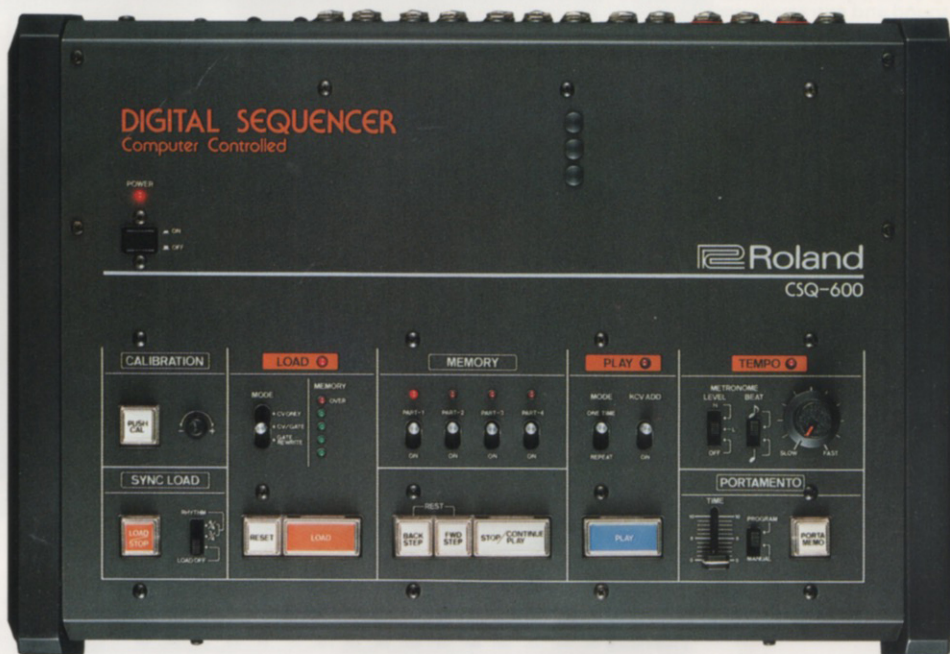
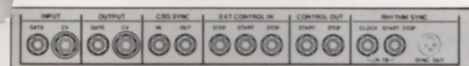
With its integrated microcomputer, the CSQ-600 can store a maximum of 600 steps and rhythms. Sequences are directly loaded from the keyboard, and both scales (CV) or rhythms (GATE) can be added separately. To protect the memory, a battery backup function is provided. Four different memories allow continuous or random loading and playback and the CSQ-600 can be used with the Compurhythm CR-78. Several CSQ-600s can be used together for an ever greater range.

In addition, loaded sequence data can be played at any tempo and easily transposed to other key and steps can be checked one-by-one. Other features include a repeat function for arpeggio and bass patterns, external gate signals or pedal switch (DP-2) control, portamento, and built-in metronome.

SPECIFICATIONS

- Maximum Storage Capacity: 600 notes (or 150 notes per channel)
- Dimensions: 450(W) x 95(H) x 305(D)mm (17.7" x 3.7" x 12.0")
- Weight: 3.9kg (8.6 lbs.)
- Accessories: 1.5m Dual Patch Cord (X2)

REAR PANEL



CSQ-100 DIGITAL SEQUENCER

Developed from the famous MC-8 MicroComposer, the CSQ-100 can expand the range of any synthesizer.

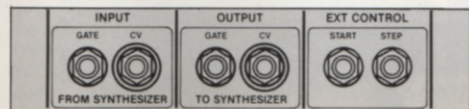
The CSQ-100 Digital Sequencer with its micro-processor element stores up to 168 notes. Synthesizer played sequences can be loaded directly, and pitch can be loaded either separately at a constant time value or with variable time values added afterwards.

Stored sequences can be played back at any desired tempo by varying the TEMPO control and can be transposed to any key with a keyboard. A quick transpose function together with the REPEAT switch efficiently improves the effectiveness of arpeggios or bass runs, etc. External jacks allow remote starting via a foot pedal or external gate voltage. It is also possible to play the sequence a single step at a time. CV and GATE are automatically switched to the synthesizer without the need for patch cord changes when not using the sequencer functions.

SPECIFICATIONS

- Maximum Storage Capacity: 168 notes (or 84 notes per channel)
- Dimensions: 345(W) x 95(H) x 305(D)mm (13.6" x 3.7" x 12.0")
- Weight: 2.7kg (5.94 lbs.)
- Accessories: 1.5m Dual Patch Cord (x2)

REAR PANEL



Systematized equipment and accessories

KEYBOARD AMPLIFIERS

All new keyboard amps from the keyboard leader.

CUBE-60 KEYBOARD <CK-60> KEYBOARD AMPLIFIER

- This portable, full range, two way speaker system features a powerful sound and extremely well balanced frequency characteristics.
- CUBE-60 Keyboard has 2-ch inputs for performing two keyboard instruments simultaneously.
- Each channel has an input attenuator and its wide dynamic range to allow the acceptance of input signals any magnitude without causing input clipping.
- Each channel has, in addition to input attenuator, ON/OFF switch of incorporated Reverb system.
- The 6 useful jacks located on the rear panel include; Pre-out/Main-in jacks, Rec-out jacks (mono), Headphone jack, Ext. speaker jack.

SPECIFICATIONS

- Output: 60 watt (rms) • Speaker: 30cm x 1, Horn Tweeter x 1 • Input jack: 2 (2 ch) • Controls: VOLUME 1, 2 (pull to attenuator), TREBLE, MIDDLE, BASS, REVERB • REC-OUT jack: 2 (mono) • MAIN-IN jack: 1 • PRE-OUT jack: 1 • HEADPHONE jack: 1 • EXT. SPEAKER jack: 1 • REVERB ON/OFF switch: 2 • Physical dimensions: 370(W) x 465(H) x 300(D)mm • Weight: 16.5kg • Accessory: Vinyl cover

REAR PANEL



CUBE-40 KEYBOARD <CK-40> KEYBOARD AMPLIFIER

- CUBE-40 Keyboard is a self-contained full range 10' double corn speaker with 40W (R.M.S.) of power, which is small but incredibly powerful and versatile.
- CUBE-40 Keyboard has 2-ch inputs for performing two keyboard instruments simultaneously.
- Each channel has an input attenuator and its wide dynamic range to allow the acceptance of input signals any magnitude without causing input clipping.
- Incorporated Reverb system.
- The 5 useful jacks located on the rear panel include; Pre-out/Main-in jacks, Rec-out jacks (mono), Headphone jack.

SPECIFICATIONS

- Output: 40 watt (rms) • Speaker: 25cm double corn x 1 • Input jacks: 2 (2 ch) • Controls: VOLUME-1, 2 (pull to attenuator), TREBLE, MIDDLE, BASS, REVERB • REC-OUT jacks: 2 • PRE-OUT jack: 1 • MAIN-IN jack: 1 • HEADPHONE jack: 1 • Physical dimensions: 310(W) x 368(H) x 205(D)mm • Weight: 11kg • Accessory: Vinyl cover

REAR PANEL



SST-120 PROFESSIONAL SOUND SYSTEM

A road speaker powerful enough for any hall.

This portable, full-range, three-way speaker system features a powerful sound and extremely well balanced frequency characteristics for a wider application range. It can be used for PA, keyboards and bass guitars.

SPECIFICATIONS

- Speakers: Woofer 38cm (R & P) x 1, Mid Range Horn x 1, Tweeter Horn x 2 • Frequency Response: 50Hz ~ 20kHz • Nominal Impedance: 8Ω • Power Handling Capacity: 120W (rms) Continuous • Dimensions: 584(W) x 838(H) x 468(D)mm (23.0" x 33.0" x 18.4") • Weight: 45kg (99 lbs.)



Systematized equipment and accessories

RHYTHM MACHINES

TR-808 RHYTHM COMPOSER

Advanced rhythm machine with integrated memory.

The Roland TR-808 is a revolutionary computer-controlled rhythm machine which offers up to 768 measures of programming at a time. In addition, this unit offers more percussive variations and more effects than virtually any other unit on the market. With it, you can visualize patterns and real time processing, program complete scores and do just about everything else a rhythm machine should do with more accuracy and less trouble.

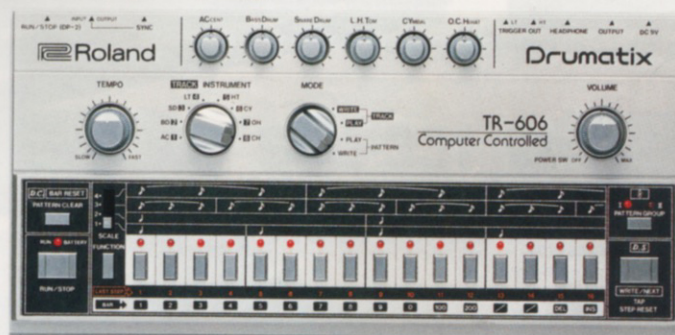
- Dimensions: 508(W) x 85(H) x 305(D)mm (20.0" x 3.4" x 12.0") • Weight: 5kg (11 lbs.)



TR-606 DRUMATIX

TR-606. The new rhythm machine that you program yourself.

- Unlike conventional rhythm machines with pre-programmed patterns, this unit is capable of memorizing any rhythm the user wishes to create. Up to 32 rhythm patterns can be memorized at one time.
- Easy synchronization with the MC-4 Micro-composer or the CSQ-600 Digital Sequencer via DIN connector.
- Rhythms can be created anywhere using headphones, since this machine runs on batteries.
- Soft case for convenient carrying.
- Dimensions: 300 (W) x 55 (H) x 146 (D) mm (11.8" x 2.17" x 5.75") • Weight: 3.7kg (8.14 lbs.)

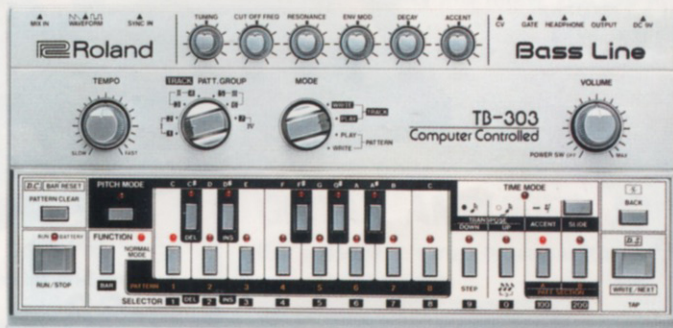


TB-303 BASS LINE

Great bass sounds at your fingertips.

Roland introduces the world's first computerized bass machine, the great new Bass Line TB-303. This remarkable little unit covers three full octaves. Instead of strings, you use keys to program bass patterns. Up to 64 patterns can be created for use anytime. And, like a bass synthesizer, you have full control over resonance, envelope modulation and other important factors influencing sound quality. When used with Roland's TR-606, you can play bass and drum patterns at the same time. Completely portable, the TB-303 runs on either battery or AC line voltage and comes completely equipped with its own carrying case. A headphones jack is also provided as standard.

- Dimensions: 300 (W) x 55 (H) x 146 (D) mm (11.8" x 2.17" x 5.75") • Weight: 1.0kg (2.2 lbs.)



DR-55 DR. RHYTHM

A small programmable microcomputer controlled rhythm machine for creating your own rhythm patterns.

This dramatically different rhythm machine has its own microcomputer which lets you arrange and program your own rhythm patterns that can be recalled instantly at the touch of a button. With the Dr. Rhythm you can program six 16-step rhythm patterns and two 12-step patterns. Each pattern can contain up to three independently programmed percussive sounds: Snare Drum, Rim Shot, and Bass Drum. To this you can add programmed accents, or a fixed pattern Hi-hat sound. Not only that, but you can write both "A" and "B" versions of each pattern, thus doubling the effective memory capacity.



- Dimensions: 211(W) x 53(H) x 116(D)mm (8.3" x 2.1" x 4.6") • Weight: 850g (1.87 lbs.)

Systematized equipment and accessories

RHYTHM MACHINES

CR series... Sophisticated rhythm machines based on the latest computer technology.

CR-8000 MICRO COMPUTER CONTROLLED RHYTHM MACHINE

Here's the most convenient rhythm machine, the new CR-8000 CompuRhythm Unit from Roland, with new design and circuit. This unit has twenty-four kinds of Basic Rhythm Patterns and eight kinds of Intro/Fill-In Rhythm Patterns as presets. In addition, CR-8000 has eight kinds of Programmable sections for Basic Rhythm and four kinds of Programmable sections for Intro/Fill-In Rhythm. You can write your own rhythm pattern at will.

• Dimensions: 331(W) x 108(H) x 278(D)mm (13.03" x 4.25" x 10.95") • Weight: 3.7kg (8.14 lbs.)



CR-5000 MICRO COMPUTER CONTROLLED RHYTHM MACHINE

A high-performance CompuRhythm machine identical to the CR-8000 but without a memory function. Designed for users who want a wealth of rhythms with a simple control. This unit has 24 kinds of Basic rhythm patterns and 8 kinds of Intro/Fill-In rhythm patterns as preset rhythm.

• Dimensions: 331(W) x 108(H) x 278(D)mm (13.03" x 4.25" x 10.95") • Weight: 3.7kg (8.14 lbs.)



CR-78 COMPURHYTHM

Deluxe rhythm with 64 presets and a programmable microcomputer to create your own beats.



• Dimensions: 300(W) x 205(H) x 265(D)mm (11.8" x 8.1" x 10.4") • Weight: 4.8kg (10.6 lbs.)



CR-68 COMPURHYTHM

Good enough to polish the edge of any performance.



• Dimensions: 260(W) x 180(H) x 275(D)mm (10.2" x 7.1" x 10.8") • Weight: 4.5kg (9.9 lbs.)

Systematized equipment and accessories

THE ROLAND RACK series

The Roland Rack keeps on getting higher.

SPA-240

STEREO
POWER AMPLIFIER
240W of superb clarity.



SPV-355

P/V SYNTHESIZER

P/V synthesizer specifically designed for use with guitars.



SPA-120

STEREO
POWER AMPLIFIER
120W of all the sound you need.



SPH-323

PHASE SHIFTER

Stereo phaser for versatile phase effects.



SBF-325

STEREO FLANGER

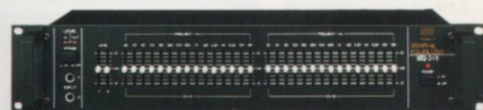
Stereo flanger offers an expanded effect range.



SEQ-315

GRAPHIC EQUALIZER

Complete frequency control in 31 divisions.



SDD-320

DIMENSION D

Dimension D changes spatial response four ways.



SEQ-331

GRAPHIC EQUALIZER

One of the most versatile graphic equalizers ever built.



SVC-350

VOCODER

Vocoder with advanced filtering system.



SMX-880

LINE MIXER

A studio quality line mixer you can take anywhere.



- All Roland Rack components have the same width and height, 482(W) x 92(H)mm (19" x 3.6")

SDE-2000

DIGITAL DELAY

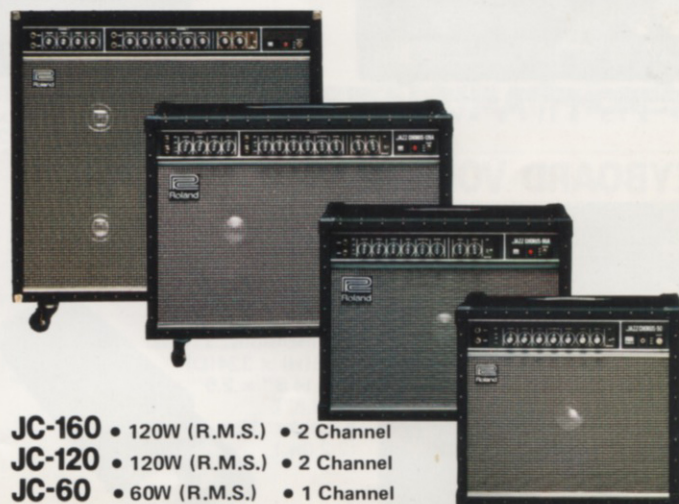
Roland SDE-2000 Digital Delay
Quality sound and unqualified versatility for studio and stage.



- Dimensions: 482(W) x 47(H) x 355(D)mm (19.0" x 1.85" x 14.0")
- Weight: 5.5kg (12.1 lbs.)

GUITAR AMPLIFIER JC series

For a deeper chorus, more exciting vibrato, softer distortion, and clearer reverb.



- JC-160 • 120W (R.M.S.) • 2 Channel
- JC-120 • 120W (R.M.S.) • 2 Channel
- JC-60 • 60W (R.M.S.) • 1 Channel
- JC-50 • 50W (R.M.S.) • 1 Channel

Systematized equipment and accessories

MIXING AMPLIFIERS & BOSS MIXERS

PA-250

STEREO MIXING AMPLIFIER

8-channel, 250W mixing amp with graphic equalizer and LED peak level meter.



• Dimensions: 603(W) x 190(H) x 505(D)mm (23.7" x 7.5" x 19.9") • Weight: 20kg (44 lbs.)

PA-150

STEREO MIXING AMPLIFIER

Powerful 150W mixing amp to make sound more powerful.



• Dimensions: 603(W) x 190(H) x 475(D)mm (23.7" x 7.5" x 18.7") • Weight: 16kg (35.2 lbs.)

PA-80

STEREO MIXING AMPLIFIER

Portable 80W mixing amp provides expanded versatility.



• Dimensions: 473(W) x 175(H) x 415(D)mm (18.6" x 6.9" x 16.3") • Weight: 12kg (26.4 lbs.)

KM-60

KEYBOARD MIXER

For sophisticated mixing on the road or in the studio.

• Dimensions: 480(W) x 95(H) x 273(D)mm (18.9" x 3.7" x 10.8") • Weight: 4.7kg (10.4 lbs.)



KM-600

KEYBOARD MIXER

Easy-to-operate multi-purpose 6-channel stereo keyboard mixer with added functions.

• Dimensions: 310(W) x 70(H) x 165(D)mm (12.2" x 2.8" x 6.5") • Weight: 2.2kg (4.84 lbs.)

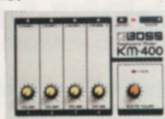


KM-400

KEYBOARD MIXER

Compact 4-channel keyboard mixer with expanded functions.

• Dimensions: 220(W) x 65(H) x 150(D)mm (8.7" x 2.6" x 5.9") • Weight: 1.4kg (3.08 lbs.)



ECHO CHAMBERS

SRE-555

CHORUS ECHO

19" rack type chorus echo with more effects and balance-in/out [XLR] control.



• Dimensions: 480(W) x 180(H) x 445(D)mm (18.9" x 7.1" x 17.5") • Weight: 15.7kg (34.54 lbs.)

RE-501

ECHO CHAMBER

The professional echo chamber with balanced in/out [XLR] and dual outputs.



• Dimensions: 418(W) x 190(H) x 330(D)mm (16.5" x 7.5" x 13.0") • Weight: 10.5kg (23.1 lbs.)

RE-201

ECHO CHAMBER

Our most popular echo



• Dimensions: 415(W) x 185(H) x 275(D)mm (16.3" x 7.3" x 10.8") • Weight: 9.5kg (20.9 lbs.)

RE-150

ECHO CHAMBER

Everything you need at a price you can afford



• Dimensions: 425(W) x 185(H) x 290(D)mm (16.7" x 7.3" x 11.4") • Weight: 8.2kg (18.0 lbs.)

DM-300

DELAY MACHINE

BOSS delay machine for an exciting new range of effects and superior tonal quality.



• Dimensions: 386(W) x 123(H) x 206(D)mm (15.2" x 4.9" x 8.1") • Weight: 3.7kg (8.2 lbs.)

DM-100

DELAY MACHINE

DM-100 Delay Machine. It creates its own space.



• Dimensions: 340(W) x 95(H) x 165(D)mm (13.4" x 3.7" x 6.5") • Weight: 2.6kg (5.8 lbs.)

RX-100

REVERB ADD

RX-100 Reverb Box. It puts more life into live performances.



• Dimensions: 340(W) x 95(H) x 165(D)mm (13.4" x 3.7" x 6.5") • Weight: 2.6kg (5.7 lbs.)

KEYBOARD VOLUME

FV-200

KEYBOARD VOLUME

Stereo keyboard foot volume control with extended volume variation range.

• Dimensions: 110(W) x 65(H) x 324(D)mm (4.3" x 2.6" x 12.8") • Weight: 1kg (2.2 lbs.)



MS-100

MONITOR SPEAKER

The tough one for professionals.



• Dimensions: 300(W) x 167(H) x 162(D)mm (11.8" x 6.6" x 6.4") • Weight: 3.5kg (7.7 lbs.)

Systematized equipment and accessories

KEYBOARD STANDS



KS-1

Applicable Keyboards

SYNTHESIZER	SH-2, SH-09 PROMARS
ORGAN STRINGS	RS-09
SATURN	SA-09
PIANO	EP-09



KS-2

Applicable Keyboards

PIANO	PIANO PLUS 11 [EP-11] PIANO PLUS 70 [HP-70] PIANO PLUS 60 [HP-60]
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KS-10

Applicable Keyboards

STRINGS	RS-505
VOCODER	VP-330
ORGAN	VK-09



KS-20

Applicable Keyboards

SYNTHESIZER	JUPITER-4 JUPITER-8 (KSA-20 Metal Adaptor to KS-20 for JUPITER-8)
COMBO PIANO	MP-600
COMBO ORGAN	VK-1

KS-50 Display Stand



- Display stand for keyboards. Makes maximum use of available floor space.
- Capable of displaying five small keyboards, such as the 09 series.
- Also capable holding one large keyboard, such as Jupiter-8, MP-600 or VK-1.
- Five pairs of arms provided
- Dimensions: 490(W) x 1820(H) x 500(D) mm (19.3" x 71.7" x 19.7")

STEREO HEADPHONES

RH-10



Ideal for monitoring.

ACCESSORIES

CARRYING CASES

CB Series Leatherette Case



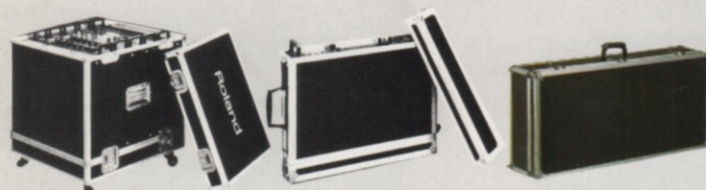
Case No.	Keyboard
CB-09	SH-2, SH-09, RS-09, SA-09
CB-1	VK-09
CB-5	RS-505, VP-330
CB-6	MP-600, VK-1
CB-8	PROMARS

SC Series Soft Case



Case No.	Keyboard
SC-1	CSQ-100
SC-2	SH-2, SH-09, RS-09, SA-09
SC-3	EP-09
SC-4	CSQ-600
SC-09	SH-2, SH-09, RS-09, SA-09
SC-60	PIANO PLUS 11 [EP-11] PIANO PLUS 60 [HP-60]
SC-70	PIANO PLUS 70 [HP-70]

TB Series Aluminum Case



Case No.	Keyboard/Rack Mount
TB-4	JUPITER-4
TB-5	RS-505, PROMARS, VP-330
TB-2U	The Roland Rack
TB-7U	The Roland Rack
TB-12U	The Roland Rack

FOOT VOLUME FV-20



2-channel foot volume for synthesizers with stereo out jacks.

PEDAL SWITCHES DP-2 DP-6



Used for combo synthesizers and pianos.



For PIANO PLUS 70 [HP-70], PIANO PLUS 60 [HP-60]

FOOT SWITCHES FS-1 FS-2 FS-3



ON/OFF foot switch.



ON/OFF control of two functions.



ON/OFF control of three functions.

PCS CORDS CONNECTION CORDS



Mini Plug ↔ Phone Plug
PSC-4 1.6m x 2 Green x 1
Brown x 1



Phone Plug ↔ Phone Plug
PCS-5 40cm x 2 Grey/Green
PCS-6 75cm x 2 Grey/Green
PCS-7 1.5m x 2 Brown/Green



Mini Plug ↔ Mini Plug
PCS-10 20cm x 2 Black/Red
40cm x 4 Black x 2/Red x 2
60cm x 2 Gray x 2
PCS-14 1m x 3 Gray/Black/Red



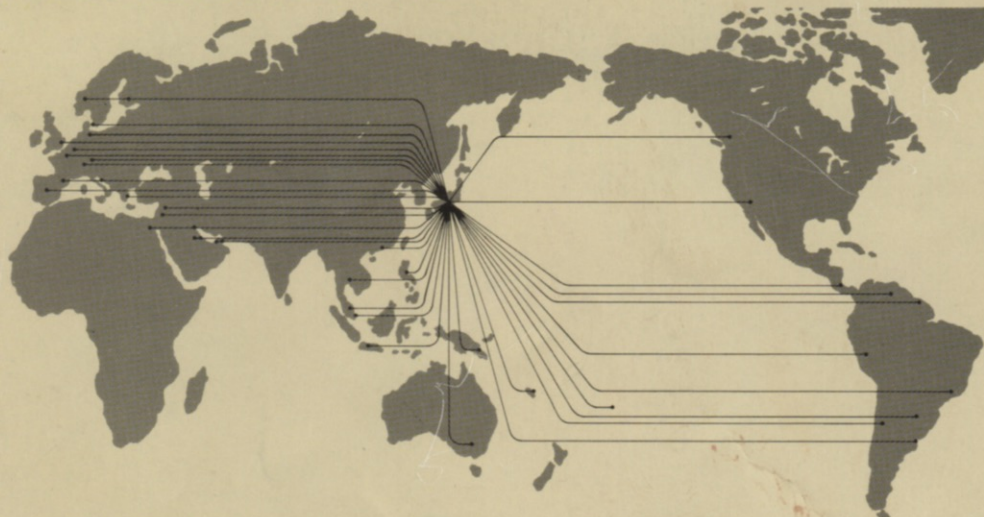
5PIN DIN Cord
PCS-17 1.4m x 1 Black

PJ-1 PIN JACK CORD



Phone Plug ↔ Pin Plug + Phone Plug
2.5m x 1 Black

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